

| Please type a plus sign (+) inside this box + | uimd to roc | U.S. Pa | tent and | Trademark | Office; U | rough 10/31/200 S DEPARTMEN | IT OF COM | 51-0032 MERCE | |
|--|--|--|---|---|-------------|--------------------------------|----------------|------------------|--|
| UTILITY | uired to respond to a collection of information unless it displays a valid OMB control number Attorney Docket PTZ21C1 | | | | | | | IIGIIIOGI | |
| PATENT APPLICATION | First I | First Inventor Rosen et al. | | | | | | . | |
| TRANSMITTAL | Title | | | | | | | | |
| (Only for new nonprovisional applications under 37 CFR 1 53(b)) | Expre | Express Mail Label . | | | | | | .8 | |
| APPLICATION ELEMENTS | | | | | | atent Applica | | 55 | |
| See MPEP chapter 600 concerning utility patent application co | ADDRESS TO: Commissioner for Pa Washington, DC 202 | | | | | | | | |
| X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) | ansmittal Form (e.g., PTO/SB/17) 7 CD-ROM or CD-R in duplicate, large table or | | | | | | | 7 | |
| Applicant claims small entity status See 37 CFR 1 27. | Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) | | | | | | | | |
| 3. X Specification [Total Pages 42 | 20 1 | | | uter Read | | (CRF) | | | |
| (preferred arrangement sal forth below) | | ьs | pecificati | on Sequer | nce Listing | on. | | | |
| Cross Reference to Related Applications | scriptive title of the invention is Reference to Related Applications i X CD-ROM or CD-R (2 copies) or ii namer | | | | | | | | |
| Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, | | داء | State | ı ments veril | ying identi | ty of above copi | 25 | | |
| or a computer program listing appendix - Background of the Invention | | | | | | | | | |
| Brief Summary of the Invention Brief Description of the Drawnings (if filled) | | ACCOMPANYING APPLICATIONS PARTS 9 Assignment Papers (cover sheet & document(s)) | | | | | | | |
| - Detailed Description - Claim(s) - Abstract of the Disclosure | | 10 | 37 CFR | 3.73(b) St | atement | Y Ass | ociate Powe | er of | |
| 4. Drawing(s) (35 U.S.C. 113) [Total Sheets | | | | (when there is an assignee) Attornev 1. English Translation Document (if applicable) | | | | | |
| 5. Oath or Declaration [Total Pages | ration [Total Pages 5] 12 Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations | | | | | | | | |
| a Newly executed (original or copy) | | | | | | | | | |
| b. X Copy from a prior application (37 CFR 1 63(d)) (for continuation/divisional with Box 18 completed) | | | 14 X Return Receipt Postcard (MPEP 503) (Should be specifically itemized) | | | | | | |
| i. DELETION OF INVENTOR(S) | | 15 Certified Copy of Priority Document(s) | | | | | | | |
| Signed statement attached deteting invertor(s) named in the prior application. | | (If foreign priority is claimed) Nonpublication Request under 35 U S.C. 122 (b)(2)(B)(i). | | | | | | | |
| see 37 CFR 1 63(d)(2) and 1 33(b). | | Applicant must attach form PTO/SB/35 or its equivalent | | | | | | | |
| | 2. Transmittal and Submission Under 37 | | | | | | | | |
| 6. X Application Data Sheet. See 37 CFR 1.76 (7 pages) | cation Data Sheet. See 37 CFR 1.76 (7 pages) C.F.R. §§ 1.824 and 1.52(e) | | | | | | | | |
| If a CONTINUING APPLICATION, check eppropriate box, and Date Sheet under 37 CFR 1.76. | d supply the | requisite info | rmation be | alow and in a | preliminary | amendment, or in | en Application | | |
| X Continuation Divisional Continuation-in-part (CIP) of prior application No 09/764,866 | | | | | | | | | |
| Prior application information. Examiner Clow, L. Group / Art Unit: 1631 | | | | | | | | | |
| For CONTINUATION or DIVISIONAL APPS only The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by | | | | | | | | | |
| reference. 19. CORRESPONDENCE ADDRESS | | | | | | | | | |
| | | | | | | | | | |
| X Customer Number or Bar Code | | 22195 | | | or | Correspond | ence addr | ess | |
| Label | | LZ 133 | | | L | below | | | |
| | | | | | | | | | |
| Name | | | | | | | | | |
| Address | | | | | | | | | |
| City | tate | | | | Zip Code | | | | |
| Country Te | elephone | | | | Fa | × | | | |
| Name (Print/Type) Mark J. Hyman | | Regi | stration N | lo. (Attorn | ey/Agent) | 46,789 | | | |
| Signature Date February 14, 2002 | | | | | | | | | |
| | | | | | | | | | |



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PTOIS917 (1-01)
Approved for use through 103 (2002. OAB) 8651-032
U.S. Patent and Trabenhard Office, U.S. DEPARTHENTY OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless is disping a valid OAB control number.

Complete If Known

| FEE TRANSMITTAL | | | Complete if Known | | | | | | | |
|---|---------------------|-----------------------------|-------------------------------------|--------------------------|---|--|--|--|--|--|
| for FY 2002 | | | Application Number Not Yet Assigned | | | | | | | |
| | | | Date | | Herewith | | | | | |
| Patent fees are subject to annual revision. | | | | d Inver | | | | | | |
| | | | iner N | lame | Not Yet Assigned | | | | | |
| Application claims small entity status. See 37 CFR 1.2 | · | Group | Art L | Init | Not Yet Assigned | | | | | |
| TOTAL AMOUNT OF PAYMENT (\$) 896.00 | | Attorney Docket No. PTZ21C1 | | | | | | | | |
| METHOD OF PAYMENT (check all that apply) | \Box | FEE CALCULATION (continued) | | | | | | | | |
| Check Credit Money Other None | 3. 4 | 3. ADDITIONAL FEES | | | | | | | | |
| | J. ADDITIONAL I LES | | | | | | | | | |
| X Oeposit Account | Laro | e Entity | Smal | I Entity | | | | | | |
| Deposit Account 08-3425 | | Fee | Fee | Fee | Fac Description | | | | | |
| Number | Code | (\$) | Code | (\$) | Fee Paid | | | | | |
| Depost Account Human Genome Sciences, Inc. | 105 | 130 | 205 | 65 | Surcharge – late filing fee or oath | | | | | |
| The Commissioner is hereby authorized to: (check all that apply) | 127 | 50 | 227 | 25 | Surcharge – late provisional filing fee or cover sheet. | | | | | |
| X Charge fee(s) indicated below X Credit any overpayments | 139 | 130 | 139 | 130 | Non-English specification | | | | | |
| X Charge any additional fee(s) during the pendency of this application | 147 | 2,520 | 147 | 2,520 | For filing a request for ex parte reexamination | | | | | |
| Charge fee(s) indicated below, except for the filing fee | 112 | 920* | 112 | 920* | Requesting publication of SIR prior to Examiner action | | | | | |
| to the above-identified deposit account | 113 | 1,840* | 113 | 1,840* | Requesting publication of SIR after | | | | | |
| FEE CALCULATION | 115 | 110 | 215 | 55 | Examiner action Extension for reply within first month | | | | | |
| 1. BASIC FILING FEE | 118 | 400 | 216 | 200 | Extension for reply within second month | | | | | |
| Large Entity Small Entity | 117 | 920 | 217 | 460 | Extension for reply within third month | | | | | |
| Fee Fee Fee Fee Fee Description Fee Paid | 118 | 1,440 | 218 | 720 | Extension for reply within fourth month | | | | | |
| 10 1 740 201 370 Utility filing fee 740 00 | 128 | 1,960 | 228 | 980 | Extension for reply within fifth month | | | | | |
| 106 330 206 165 Design filing fee | 119 | 320 | 219 | 160 | Notice of Appeal | | | | | |
| 107 510 207 255 Plant filing fee | 120 | 320 | 220 | 160 | Filing a brief in support of an appeal | | | | | |
| 108 740 208 370 Reissue filing fee | 121 | 280 | 221 | 140 | Request for oral heaning | | | | | |
| 114 160 214 80 Provisional filing fee | 138 140 | 1,510 | 138 | 1,510 | Petition to institute a public use proceeding | | | | | |
| SUBTOTAL (1) (\$) 740 00 | 141 | 110 | 240 | 55 640 | Petition to revive – unavoidable Petition to revive - unintentional | | | | | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | 142 | 1,280 | 242 | 640 | Utility Issue fee (or reissue) | | | | | |
| Extra Fee from See Bold | 143 | 460 | 243 | 230 | Design issue fee | | | | | |
| Total Claims 24 -20** = 4 x 18 00 = 72.00 | 144 | 620 | 244 | 310 | Plant issue fee | | | | | |
| Independent 4 3** = 1 × 84.00 = 84.00 | 122 | 130 | 122 | 130 | Petitions to the Commissioner | | | | | |
| Claims 4.00 = 04.00 = 04.00 | 123 | 50 | 123 | 50 | Processing fee under 37 CFR 1 17(q) | | | | | |
| | 126 | 180 | 126 | | Submission of Information Disclosure Stmt | | | | | |
| Large Entity Small Entity Fee Fee Fee Fee Fee Fee Description | 581 | 40 | | | Recording each patent assignment per | | | | | |
| Code (\$) Code (\$) Fee Description 103 18 203 9 Claims in excess of 20 | 146 | 740 | 581 | 40 | property (times number of properties) Filing a submission after final rejection | | | | | |
| 102 84 202 42 Independent claims in excess of 3 | | | 246 | 370 | (37 CFR 1.129(a)) For each additional invention to be | | | | | |
| 104 280 204 140 Multiple dependent clalm, if not paid | 149 | 740 | 249 | 0,0 | examined (37CFR 1 129(h)) | | | | | |
| 109 84 209 42 ** Reissue independent claims over original patent | 179 | 740 | 279 | | Request for Continued Examination (RCE) Request for expedited examination | | | | | |
| 110 18 210 9 ** Reissue claims in excess of 20 | 169 | 900 | 169 | 900 | of a design application | | | | | |
| and over onginal patent | Other fee (specify) | | | | | | | | | |
| SUBTOTAL (2) (\$) 156 00 Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0 00 | | | | | | | | | | |
| | | | | | | | | | | |
| | Regist | ration No | Lan | 700 | Complete (if applicable) | | | | | |
| Name (Print/Type) Mark J. Hyman | ey/Agent) | 46 | ,789 | Telephone (240) 314-1224 | | | | | | |
| Signature Date February 14, 2002 | | | | | | | | | | |
| | | | | | | | | | | |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Rosen et al. Attorney Docket No.: PTZ21C1

Application Serial No.: Not Yet Assigned Art Unit: Not Yet Assigned

Filed: Herewith Examiner: Not Yet Assigned

Title: Nucleic Acids, Proteins, and Antibodies

STATEMENT UNDER 37 C.F.R. § 1.821

Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. § 1.821(f), Applicants hereby certify that the sequence listing information recorded in computer readable form and submitted herewith is identical to the written (on compact disc) Sequence Listing submitted herewith.

Respectfully submitted,

Dated: February 14, 2002

Mark J. Hyman

Reg. No. 46,789

Attorney for Applicants

Human Genome Sciences, Inc. 9410 Key West Avenue Rockville, MD 20850 Telephone: (240) 314-1224

Enclosures

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Rosen et al.

Attorney Docket No.: PTZ21C1

Application Serial No.: Not Yet Assigned

Art Unit: Not Yet Assigned

Filed: Herewith

Examiner: Not Yet Assigned

Title: Nucleic Acids, Proteins, and Antibodies

TRANSMITTAL AND SUBMISSION UNDER 37 C.F.R. §§ 1.824 AND 1.52(e)

Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.821(e) and 1.824, Applicants submit herewith a Sequence Listing satisfying the computer readable format requirements on a compact disc (CD-R) labeled "CRF." Applicants submit concurrently herewith a Statement Under 37 C.F.R. § 1.821.

Additionally, in accordance with 37 C.F.R. §§ 1.52(e), 1.821, and 1.823, Applicants submit herewith a Sequence Listing as an electronic document on two identical compact discs (CD-R). Applicants certify under 37 C.F.R. § 1.52(e)(4) that these two compact discs, labeled "Copy 1" and "Copy 2," are identical. These compact discs, formatted for an IBM-PC machine and compatible with the MS-Windows operating system, each contain the file "PTZ21C1 seglist.txt" (277,176 bytes in size, created February 13, 2002).

Respectfully submitted,

Dated: February 14, 2002

man

Reg. No. 46,789

Attorney for Applicants

Human Genome Sciences, Inc. 9410 Kcy West Avenue Rockville, MD 20850 Telephone: (240) 314-1224

Enclosures